Fig. 1

```
package hello;

import com.bea.control.ControlContext;
import com.bea.control.ControlException;

/**
 * @common:control
 * @jcs:control-tags file="Hello-tags.xml"
 */
public class Hello
{
    /**
     * A constant to hold the name of the demeanor annotation.
     */
    public static final String TAG_DEMEANOR = "demeanor";

    /**
     * A constant to hold the name of the greetingStyle attribute.
     */
    public static final String ATTR_GREETING_STYLE =
"greetingStyle";

    /**
     * The ControlContext interface provides access to aspects
     * of a control's container, including the properties stored
     * for the control.
     *
     * @common:context
     */
    ControlContext context;

    /**
     * Control methods are operations, just as with the methods of a
     * web service.
     *
     * @common:operation
     */
    public String sayHello()
    {
        String response = null;
        String greetingStyle =
context.getControlAttribute(TAG_DEMEANOR, ATTR_GREETING_STYLE);

        /*
         * Return a greeting depending on the value the developer set in
         * the greetingStyle property attribute.
         */
        try {
            if (greetingStyle.equals("Cordial")) {
                response = "Hi! Nice weather we're having, eh?";
            }
            else if (greetingStyle.equals("Professional")) {
                response = "Hi! Great job on that presentation!";
            }

            /*
             * Throw a ControlException
             */
        } catch (Exception e) {
            throw new ControlException("There was an error greeting
users!", e);
        }

        return response;
    }
}
```

Fig. 2

```
<control-tags xmlns="http://www.bea.com/2003/03/controls/">
  <control-tag name="demeanor">
    <description>Defines the style of greeting this control returns.</description>
    <attribute name="greetingStyle" required="false">
      <description>Defines the style of greeting this control returns.</description>
      <type>
        <enumeration>
          <value>Cordial</value>
          <value>Familiar</value>
          <value>Professional</value>
        </enumeration>
      </type>
      <default-value>Cordial</default-value>
    </attribute>
  </control-tag>
</control-tags>
```

Fig. 3